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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/677,376	10/03/2003	Heon Jun Kim	HI-0172	9734	
34610 75	590 11/24/2006		EXAM	EXAMINER	
FLESHNER & KIM, LLP			SMITH, JE	SMITH, JEFFREY S	
P.O. BOX 221200 CHANTILLY, VA 20153			ART UNIT ·	PAPER NUMBER	
			2635		
			DATE MAILED: 11/24/2006	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) 10677,376 KIM ET AL. Examiner Jeffrey S. Smith 2635	•				45
Examiner Jeffrey S. Smith 2635		·	Application No.	Applicant(s)	-1-2
Jeffrey S. Smith Jeffrey S.			10/677,376	KIM ET AL.	
- The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Estantions of time may be available under the provisions of 3° CPR 1.73(9), into oven, however, may a reply be timely field If NO proof for reply is specified above, the maximum statutory period will apply and will apply and visit spire (5) (5) MONTHS from the mailing date of this communication. Falliant to reply which the side or central period for reply is specified above, the mailing date of this communication. Falliants on providing the properties of the period of the spire is 0.5 (2) MONTHS from the mailing date of this communication, even if timely fled, may reduce any common parent term educations. Set 3° CPR 1.73(9), and the properties of the mailing date of this communication, even if timely fled, may reduce any common parent term educations. Set 3° CPR 1.73(9), and the properties of the mailing date of this communication, even if timely fled, may reduce any common parent term educations. Set 3° CPR 1.73(9). Status Status Status 1)□ Responsive to communication(s) filled on 0.3 October 2003. 2a)□ This action is FINAL. 2b)□ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)□ Claim(s) is fare allowed. 6)□ Claim(s) is fare allowed. 6)□ Claim(s) is fare allowed. 6)□ Claim(s) is fare allowed. 7)□ Claim(s) is fare allowed. 8)□ Claim(s) is fare objected to. 8)□ Claim(s) is fare objected to by the Examiner. 10)□ The drawing(s) filled on 0.3 October 2003 is fare: a)□ accepted or b)□ objected to by the Examiner. Application Papers 9)□ The drawing(s) filled on 0.3 Octob	Office Action Summary		Examiner	Art Unit	
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extentions of the many be variable under the provisions of 37 CRF 1.138(e). In no event, however, may a reply be finely filed to the provision of 37 CRF 1.138(e). In no event, however, may a reply be finely filed in the provision of 37 CRF 1.138(e). In no event, however, may a reply be thindly filed in the communication. If the provision is specified above, the maintain statutory period will apply and will expire \$18 (e) MONTHS from the mailing date of this communication. Plants to reprove you be the communication to become ARNOFOLE (38 U.S. C. § 133). Any reply received by the communication extended period for reply is specified above, the maintain statutory period will apply and will expire \$18 (e) MONTHS from the mailing date of this communication, even if timely filed, may reduce any sector plants them adjustment. See \$7 CRF 1.794(e). Status 1) Responsive to communication(s) filed on @3 October 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-16 Is/are pending in the application. 4a) Of the above claim(s) is/are allowed. 5) Is/are allowed. 5) Is/are allowed. 6) Is/are allowed. 6) Is/are allowed. 6) Is/are allowed. 7) Claim(s) 1-16 Is/are rejected. 7) Claim(s) 1-16 Is/are rejected. 7) Claim(s) 1-16 Is/are rejected. 8) The specification is objected to by the Examiner. 10) The specification is objected to by the Examiner. 10) The specification is objected to by the Examiner. 10) Application Papers 9) The specification is objected to by the Examiner. 10) Acknowledgment of making the provision to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) includin				with the correspondence address -	-
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-16 are rejected under 35 U.S.C. 102(b) as being anticipated by EP 1 102 212 A2 by Lee et al. ("Lee").

For claim 1, Lee discloses dividing a bin value into N+1 regions using N threshold values, and dividing and quantizing the divided regions uniformly and more finely with respect to each region that is nearer to zero (see figure 3).

For claim 2, the first threshold value is zero or almost zero (see paragraph 39).

For claims 3 and 4, the first region is one value, which is a single value (see column 6 line 20).

For claim 5, the N+1 regions are non-uniform regions (see paragraph 30).

For claim 6, the threshold values are listed in paragraph 39.

For claims 7 and 8, the values are shown in the table in column 6.

For claim 9, Lee separates the bin values into non-uniform regions, and represents a bin value within each region uniformly (see paragraph 39).

For claim 10, the first region has a single bin value (see the table in col. 6).

For claim 11, the other regions are divided by integers (see the table).

For claim 12, two integers are not equal (see the table).

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For claim 13, the inequality is satisfied by the thresholds listed in paragraph 39.

For claim 14, representing bin values with 8 bits is discussed in paragraph 38.

For claim 15, of course 8 bits represent 256 values (as shown by the sum of levels in the table, which equals 256).

For claim 16, quantizing bin values is discussed in the title and abstract.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey S. Smith whose telephone number is 571 270-1235. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marvin Lateef can be reached on 571-270-1245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JSS 11-16-2006

SUPERVISORY PATENT EXAMINER